

Title (en)

PROTON EXCHANGE MEMBRANE WATER ELECTROLYZER MEMBRANE ELECTRODE ASSEMBLY

Title (de)

MEMBRANELEKTRODENANORDNUNG FÜR EINEN WASSERELEKTROLYSEUR MIT PROTONENAUSTAUSCHMEMBRAN

Title (fr)

ENSEMBLE MEMBRANE-ÉLECTRODE D'ÉLECTROLYSEUR D'EAU À MEMBRANE ÉCHANGEUSE DE PROTONS

Publication

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Application

EP 22750305 A 20220202

Priority

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Abstract (en)

[origin: US2022243339A1] Method for forming a membrane electrode assembly, include for example, providing a first layer membrane, a second layer membrane, an anode electrode, and a cathode electrode. The first layer membrane has a first thickness, the second layer membrane has a thickness less than the first thickness, and the second layer membrane contains a catalyst content that is greater than a catalyst content in the first layer membrane. The first layer membrane, the second layer membrane, the anode electrode, and the cathode electrode are formed into a membrane electrode assembly (MEA) comprising an exchange membrane having an interface between the first layer membrane and the second layer membrane. In some embodiments, may include a first and second lamination process, a single laminating process, a roll-to-roll process, and/or a casting process.

IPC 8 full level

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